

Dr. SAMANTHA MICHELLE GATEMAN

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AFFILIATIONS

01/01/2022-present

Surface Science Western Affiliate Member, Western University, London, Canada.

01/01/2022-present

Assistant Professor, Western University, London, Canada.

EDUCATION

01/2021-12/2021

NSERC Postdoctoral Fellowship, Chemistry, LRS - CNRS UMR8235, Sorbonne Université, Paris, France.

09/2015-06/2020

Doctor of Philosophy, Chemistry, McGill University, Montreal, Quebec, Canada.

09/2011- 05/2015

Bachelor of Science, Honours Chemistry, McGill University, Montreal, Quebec, Canada.

RESEARCH INTERESTS: *Multiscale Electrochemistry, Scanning electrochemical probe microscopy, Corrosion and Materials Degradation, Radioelectrochemistry*

SELECTED PUBLICATIONS (n=24)

- 1) E. Mena Morcillo, A. Pilehrood, R. Moshrefi, G. Shafiee, M. Behazin, P. Keech, **S. M. Gateman***, The Effect of Redox Mediators on Corrosion Behaviour and Scanning Electrochemical Microscopy Response, *ACS Analytical Chemistry*, 96, 22, 9122–9131, 2024.
- 2) J. J. M. Bunting, Z. C. L. Leung, B. Boboc, D. H. Betts, J. B. Gilroy, K. Oinonen, K. Choi, L. Chambers, B. Abu Rafea, **S. M. Gateman***, Revolutionizing Women’s Health: The Quest for Next-Generation, Non-Hormonal Intrauterine Devices, *Nature Womens Health*, 2, 24, 2024.
- 3) **S. M. Gateman**, O. Gharbi, K. Ngo, M. Turmine, V. Vivier*, On the use of a constant phase element (CPE) in electrochemistry, *Current Opinion in Electrochemistry*, 2022, 101133.

AWARDS AND HONOURS

One of “The Talented 12”, *Chemical & Engineering News, ACS*, 2024.

<https://cen.acs.org/articles/102/i15/Samantha-M-Gateman.html>

Rising Star in Measurement Science, *ACS Au Measurement Science*, 2024.

Chair in Radiation Induced Corrosion Chemistry, *Nuclear Waste Management Organization*.

MEDIA INTERVIEWS

A corrosive metals expert is developing a new type of IUD, **CBC Fresh Air** Morning Show with Ismaila Alfa. <https://www.cbc.ca/listen/live-radio/1-193/clip/16087009>

Fuelling Nuclear Safety, **The Globe and Mail**, by Jeff Renaud. https://www.theglobeandmail.com/business/adv/article-fuelling-nuclear-safety/?utm_source=Shared+Article+Sent+to+User&utm_medium=LinkCopy&utm_campaign=Shared+Web+Article+Links

Sept 11, 2024
RE: Division 4 Chair Elect

Dear Division 4 Community,

I am honored to be considered for the role of Chair Elect of Division 4, Electrochemical Materials Science, within the International Society of Electrochemistry (ISE) for the years 2025-2026. As a dedicated member of the electrochemical community, I am passionate about fostering an inclusive environment where diverse perspectives can contribute to the advancement of our field.

A key priority for me as Chair Elect would be to enhance the participation of early career researchers (ECRs), including postdoctoral fellows and assistant professors. Their insights and energy are vital for the future of electrochemical science, and I believe it is essential to better integrate them into the ISE community. To achieve this, I propose organizing targeted events such as ECR-led symposia and workshops at ISE conferences. These events would allow ECRs to present their research and network with established researchers in an informal setting, encouraging collaboration and peer support.

Additionally, I plan to increase the visibility of Division 4 through a more robust social media presence. By utilizing platforms such as LinkedIn, Twitter (X), and ResearchGate, we can actively promote Division 4's achievements, publicize opportunities for ECRs, and build a dynamic online community that reaches a global audience. Strengthening our digital presence will not only help engage new members but also provide a platform for ECRs to showcase their work and gain recognition within the field.

I look forward to working with my colleagues to make Division 4 a vibrant and welcoming space for all, ensuring that all researchers feel supported and empowered to contribute to our shared goals.

Sincerely,

Prof. Samantha M. Gateman
Assistant Professor, Faculty of Science
Department of Chemistry
NWMO Chair of Radiation Induced Chemistry
Affiliated member of Surface Science Western
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